Project Name: BAGO-MARAGLE ESM

Project Code: BGM_ESM Site ID: 1004 Observation ID: 1

Agency Name: CSIRO Division of Soils (ACT)

Site Information

Desc. By: P. Ryan Locality:

Date Desc.: Elevation: 1163 metres 13/12/94 Map Ref.: Sheet No.: 8526 DGPS Rainfall: No Data Northing/Long.: 6054682 AMG zone: 55 Runoff: Slow Easting/Lat.: 602307 Datum: AGD66 Drainage: Well drained

Geology

ExposureType: Soil pit Conf. Sub. is Parent. Mat.: Probable Geol. Ref.: SGGH Substrate Material: Granodiorite

Land Form

Rel/Slope Class:No DataPattern Type:No DataMorph. Type:Mid-slopeRelief:No DataElem. Type:HillslopeSlope Category:No DataSlope:10 %Aspect:315 degrees

Surface Soil Condition (dry): Firm

Erosion:

Soil Classification

Australian Soil Classification: Mapping Unit: N/A
Acidic Mesotrophic Red Kandosol Thin Slightly gravelly ClayPrincipal Profile Form: Gn2.11

loamy Clayey Deep

ASC Confidence: Great Soil Group: Red earth

All necessary analytical data are available.

Site Disturbance: No effective disturbance. Natural

Vegetation:

Surface Coarse Fragments:

Profile Morphology

O1 0 - 0.01 m Organic Layer; ;

A1 0.01 - 0.08 m Dark brown (7.5YR3/2-Moist); Biological mixing, 10-20%, Faint; Clay loam, sandy; Moderate grade of structure, 2-5 mm, Polyhedral; Rough-ped fabric; Moderately moist; Weak consistence;

Moderately plastic; Slightly sticky; 2-10%, medium gravelly, 6-20mm, rounded tabular, dispersed, Granodiorite, coarse fragments; Field pH 5.5 (pH meter); Many, very fine (0-1mm) roots; Common, fine (1-2mm) roots; Few, medium (2-5mm) roots; Abrupt, Smooth change to -

A3 0.08 - 0.17 m Dark brown (7.5YR3/2-Moist); Biological mixing, 10-20%, Faint; Light clay; Strong grade of

structure, 5-10 mm, Polyhedral; 100-200 mm, Lenticular; Rough-ped fabric; Moderately moist; Weak consistence; Moderately plastic; Slightly sticky; 2-10%, coarse gravelly, 20-60mm, rounded tabular, dispersed, Granodiorite, coarse fragments; Field pH 5.5 (pH meter); Common,

very fine (0-1mm) roots; Clear, Wavy change to -

B1 0.17 - 0.29 m Dark reddish brown (5YR3/4-Moist); Biological mixing, 2-10%, Faint; Light clay; Moderate grade of structure. 5-10 mm. Polyhedral: 100-200 mm. Lenticular: Smooth-ped fabric: Moderately

moist; Weak consistence; Very plastic; Moderately sticky; Few cutans, <10% of ped faces or walls coated, faint; Field pH 5.5 (pH meter); Few, very fine (0-1mm) roots; Gradual, Smooth

change to -

B21 0.29 - 0.75 m Yellowish red (5YR4/6-Moist); Biological mixing, 0-2%, Faint; Light clay; Massive grade of

structure; Earthy fabric; Moderately moist; Weak consistence; Very plastic; Moderately sticky; 0-2%, medium gravelly, 6-20mm, angular, dispersed, Quartz, coarse fragments; Field pH 5 (pH meter); Few, very fine (0-1mm) roots; Few, fine (1-2mm) roots; Diffuse, Smooth change to -

B22 0.75 - 0.93 m Yellowish red (5YR4/6-Moist); ; Coarse sandy clay loam; Massive grade of structure; Earthy

fabric; Moderately moist; Weak consistence; Moderately plastic; Moderately sticky; 20-50%, cobbly, 60-200mm, subrounded, stratified, Granodiorite, coarse fragments; Field pH 5.5 (pH

meter); Gradual, Irregular change to -

B3 0.93 - 1.16 m Strong brown (7.5YR5/6-Moist); Substrate influence, 2-10%, Faint; Coarse sandy clay loam;

Massive grade of structure; Sandy (grains prominent) fabric; Moderately moist; Weak

consistence; Slightly plastic; Slightly sticky; Field pH 5.5 (pH meter);

C 1.16 - 1.41 m Light yellowish brown (10YR6/4-Moist); ; Clayey coarse sand;

Morphological Notes

B3 Two pieces of slightly weathered granodiorite mark top of this horizon. Rest of horizon

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Project Code: BGM_ESM Site ID: 100
Agency Name: CSIRO Division of Soils (ACT) 1004 Observation ID: 1

Observation Notes

Site Notes

VI/1.11 ALPINE ASH THINNING TRIAL

BAGO-MARAGLE ESM

1004 Observation ID: 1

Project Name: Project Code: Agency Name: BGM_ESM Site ID: 100
CSIRO Division of Soils (ACT)

Laboratory Test Results:

Depth	pH	1:5 EC		hangeable			Exchangeable	CEC	ECEC	ESP
m		dS/m	Ca I	Иg	K	Na Cmol (-	Acidity ⊦)/kg			%
0.01 - 0.09	4.08C 4.86A		4.35H	1.29	0.61	0.15	4.71J 0K		11.11E	Ē
0.08 - 0.17	4.25C 5.22A		1.82H	1.08	0.64	0.11	1.61J 0K		5.26E	
0.17 - 0.29	4.32C 5.34A		1.77H	1.44	0.64	0.1	1.14J 0K		5.09E	
0.31 - 0.39	4.09C 5.09A		0.94H	1.1	0.58	0.11	1.37J 0K		4.1E	
0.76 - 0.86	3.8C 4.91A		0.07H	0.26	0.46	0.11	2.75J 0K		3.64E	
0.96 - 1.06	3.83C 4.95A		0.06H	0.16	0.41	0.1	6.04J 0K		6.77E	
Depth	CaCO3	Organic C	Avail. P	Total P	Total N	l Tota K	l Bulk Density		ticle Size	Analysis Silt Clay
m	%	%	mg/kg	%	%	%	Mg/m3		%	
0.01 - 0.09 0.08 - 0.17		7.19B 2.27B		316.9E 256.8E	_	2A 2A	0.82 1.26	29.73 11.65		
0.17 - 0.29 0.31 - 0.39		1.32B		160.4E	3 0.0	16A 13A	1.32 1.35	9.37 4.88		
0.76 - 0.86 0.96 - 1.06		0.21B 0.12B		115.5E 153.7E	3 0.0)2A)1A	1.53	9.33 14.56		
Depth	COLE		Grav	imetric/Vo	olumetric	Water Cor	ntents		K sat	K unsat
m		Sat.		0.1 Bar	0.5 Bar /g - m3/n	1 Bar		Bar	mm/h	mm/h

^{0.01 - 0.09} 0.08 - 0.17 0.17 - 0.29 0.31 - 0.39 0.76 - 0.86 0.96 - 1.06

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Laboratory Analyses Completed for this profile

15_NR Sum of Ex. cations + Ex. acidity - Not recorded

15E1_AL 15E1_CA Exchangeable AI - by compulsive exchange, no pretreatment for soluble salts

Exchangeable bases (Ca2+,Mg2+,Na+,K+) by compulsive exchange, no pretreatment for soluble

Exchangeable H - by compulsive exchange, no pretreatment for soluble salts 15E1_H

Exchangeable bases, CEC and AEC by compulsive exchange, no pretreatment for soluble salts 15E1_K 15E1_MG Exchangeable bases, CEC and AEC by compulsive exchange, no pretreatment for soluble salts 15E1_NA Exchangeable bases, CEC and AEC by compulsive exchange, no pretreatment for soluble salts

Air-dry moisture content 2A1 pH of 1:5 soil/water suspension 4A1

pH of 1:5 soil/0.01M calcium chloride extract - following Method 4A1 4B2

6B2 Total organic carbon - high frequency induction furnace, volumetric

7A2 Total nitrogen - semimicro Kjeldahl , automated colour

Total Phosphorus (ppm) - semimicro kjeldahl, automated colour 9A3

P10_GRAV Gravel (%)

Bulk density - g/cm3 P3A1